

CLAIMS

What is claimed is:

1. A machine horse control system, comprising:
 - an operating system (OS) unit, which completes a power on procedure via a
5 network interface and receives a control command via another network interface;
 - a central controlling unit, which is connected to the OS unit via a connection module to receive the control command; and
 - 10 a controlled object, which is connected to the central controlling unit for executing an operation corresponding to the control command.
2. The machine horse control system of claim 1, wherein the OS unit is a PC104 control card.
3. The machine horse control system of claim 1, wherein the OS unit contains a main control module that connects to the server via a network interface to complete the power on
15 procedure and to receive the control command.
4. The machine horse control system of claim 3, wherein the main control module is a disk on module (DOM) chip.
5. The machine horse control system of claim 1, wherein the connection module is an RS232 interface.
- 20 6. The machine horse control system of claim 2, wherein the OS unit has a plurality of connection modules.
7. The machine horse control system of claim 6, wherein each of connection modules has a universal serial bus (USB) interface.

8. The machine horse control system of claim 1, wherein the central controlling unit contains:

a microprocessor, which receives the control command via a connection module; and

5 a control module, which controls the controlled object according to the control command.

9. The machine horse control system of claim 8, wherein the central controlling unit further includes a power module to providing necessary power for the microprocessor and the control module.

10 10. A machine horse control method comprising the steps of:

providing an OS for an OS unit;

connecting the OS unit to a server via a network in order to perform a system power on procedure;

updating drivers in the OS to complete a power on procedure;

15 the OS unit's connecting to a control server via a wireless network interface to receive a control command from the control server; and

the OS unit's controlling the motion of the controlled object after the OS unit receives the control command.

11. The method of claim 10 further comprising the steps of:

20 collecting data surrounding the controlled object;

transmitting the obtained data to the control server via the wireless network interface;

adjusting the control command according to the returned data; and

transmitting an adjusted control command to the OS unit.

12. The method of claim 10, wherein the step of providing an OS for an OS unit comprises the steps of:

5 establishing a root file system;

 establishing a kernel for the OS; and

 installing a power on loading program to the main control module.

13. The method of claim 10 wherein the step of establishing a root file system includes the steps of:

10 using a utility to build a basic file system;

 compiling a remote login program in the root file system; and

 installing the basic file system with the remote login program into the OS unit.

14. The method of claim 12, wherein the step of establishing a kernel for the OS includes the steps of:

15 editing the kernel;

 compiling the kernel;

 loading the compiled kernel into the root file system.

15. The method of claim 12, wherein the step of installing a power on loading program to the main control module includes the steps of:

20 turning on the machine horse system using a diskless distant power on procedure;

installing a power on disk and copying the root file system to the main control module;

editing a settings file; and

installing the settings file in the main control module.